

IN THE CLAIMS

Claims 1-17. (Canceled)

18. (Currently Amended) A recording apparatus comprising:

an extractor operable to extract a program clock reference from a received transport stream;

a clock generator operable to generate [[a]] an external clock signal synchronized with said program clock reference;

a time-stamp generator operable to generate an arrival time stamp corresponding to a time of receipt of a transport packet in synchronization with said external clock signal;

a formatting unit operable to add said arrival time stamp to the transport packet;

and

an information generator operable to generate information representative of a transport packet corresponding to discontinuity of the added arrival time stamps in the transport stream;

wherein when said arrival time stamp is discontinuous, output timing of the transport packet is controlled in accordance with the discontinuity information.

Claims 19-21. (Canceled)

22. (Currently Amended) A recording apparatus comprising:

a time-stamp generator operable to generate a sequential time stamp

corresponding to a time of receipt in response to ~~[[a]]~~ an external clock;

a formatting unit operable to add said time stamp indicating arrival time of each transport packet to the transport packet;

an information generator operable to generate information indicative of positional information of the transport packet corresponding to discontinuity of the added time stamps; ~~wherein said information and the time stamp is utilized to control the output of said transport packet;~~ and

a recording unit operable to record said positional information along with the input transport packet;

wherein when said time stamp is discontinuous, output timing of the transport packet is controlled in accordance with the discontinuity information.

23. (Previously Presented) The recording apparatus according to claim 22,

wherein a recording control circuit stores a playback management file of an original playback path corresponding to a transport stream in a storage media unit.

24. (Previously Presented) The recording apparatus according to claim 23,

wherein said playback management file includes file names, times and addresses of an edited playback path and locations or points of time at each of which discontinuity of time stamps is generated.

Claim 25 (Canceled)

26. (Currently Amended) A recording apparatus comprising:

a time-stamp generator operable to generate an arrival time stamp corresponding to a time of receipt indicative of arrival time of a received transport packet;

a formatting unit operable to add said arrival time stamp to the received transport packet; and

an information generator operable to generate information indicating a discontinuity of the generated arrival time stamp in the transport stream, ~~wherein said information and the time stamp is utilized to control the output of said transport packet;~~

wherein when said arrival time stamp is discontinuous, output timing of the transport packet is controlled in accordance with the discontinuity information.

27. (Previously Presented) The recording apparatus according to claim 26,

wherein a recording control circuit stores a playback management file of an original playback path corresponding to a transport stream in a storage media unit.

28. (Previously Presented) The recording apparatus according to claim 27,

wherein said playback management file includes file names, times and addresses of an edited playback path and locations or points of time at each of which discontinuity of time stamps is generated.

Claim 29. (Canceled)

30. (Currently Amended) A method for recording, comprising the steps of:

extracting a program clock reference from a received transport stream;

generating ~~[[a]]~~ an external clock signal synchronized with said program clock

reference;

generating an arrival time stamp corresponding to a time of receipt of a transport packet in synchronization with said external clock signal;

formatting to add said arrival time stamp to the transport packet; ~~and~~

generating information representative of a transport packet corresponding to discontinuity of the added arrival time stamps in the transport stream; and

controlling when said arrival time stamp is discontinuous, output timing of the transport packet in accordance with the discontinuity information.

31. (Previously Presented) A method according to claim 30,

wherein a recording control circuit stores a playback management file of an original playback path corresponding to a transport stream in a storage media unit.

32. (Previously Presented) A method according to claim 31,

wherein said playback management file includes file names, times and addresses of an edited playback path and locations or points of time at each of which discontinuity of time stamps is generated.

33. (Canceled)

34. (Currently Amended) A method for recording, comprising the steps of:

generating a sequential time stamp corresponding to a time of receipt in response to [[a]] an external clock;

formatting to add said time stamp indicating arrival time of each transport packet to the transport packet;

generating information indicative of positional information of the transport packet corresponding to discontinuity of the added time stamps, ~~wherein said information and the time stamp is utilized to control the output of said transport packet;~~ and

recording said positional information along with the input transport packet;

controlling when said time stamp is discontinuous, output timing of the transport packet in accordance with the discontinuity information.

35. (Previously Presented) A method according to claim 34,

wherein a recording control circuit stores a playback management file of an original playback path corresponding to a transport stream in a storage media unit.

36. (Previously Presented) A method according to claim 35,

wherein said playback management file includes file names, times and addresses of an edited playback path and locations or points of time at each of which discontinuity of time stamps is generated.

Claim 37. (Canceled)

38. (Currently Amended) A method for recording, comprising the steps of:

generating an arrival time stamp indicative of an arrival time corresponding to a time of receipt of a received transport packet;

formatting to add said arrival time stamp to the received transport packet; and

generating information indicating a discontinuity of the generated arrival time

stamp in the transport stream, ~~wherein said information and the time stamp is utilized to control the output of said transport packet;~~

controlling when said arrival time stamp is discontinuous, output timing of the transport packet in accordance with the discontinuity information.

39. (Previously Presented) A method according to claim 38,

wherein a recording control circuit stores a playback management file of an original playback path corresponding to a transport stream in a storage media unit.

40. (Previously Presented) A method according to claim 39,

wherein said playback management file includes file names, times and addresses of an edited playback path and locations or points of time at each of which discontinuity of time stamps is generated.

Claim 41-43. (Canceled)

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44. (New) A recording medium for recording a plurality of data streams, said plurality of data streams being recorded in accordance with the steps of:

- extracting a program clock reference from a received transport stream;
- generating an external clock signal synchronized with said program clock reference;
- generating an arrival time stamp corresponding to a time of receipt of a transport packet in synchronization with said external clock signal;
- formatting to add said arrival time stamp to the transport packet;
- generating information representative of a transport packet corresponding to discontinuity of the added arrival time stamps in the transport stream; and
- storing said information representative of said transport packet corresponding to said discontinuity of the added arrival time stamps in the transport stream.